

OR

- 6 a. Explain briefly Naïve Bayes classifier and Gibbs algorithm/classifier. (08 Marks)
 b. The following table gives data set about stolen vehicles. Using bayes classifier classify the new data (Red, SUV, domestic)

Example No	Color	Type	Origin	Stolen
1	Red	Sports	Domestic	Yes
2	Red	Sports	Domestic	No
3	Red	Sports	Domestic	Yes
4	Yellow	Sports	Domestic	No
5	Yellow	Sports	Imported	Yes
6	Yellow	Sports	Imported	No
7	Yellow	SUV	Imported	Yes
8	Yellow	SUV	Domestic	No
9	Red	SUV	Imported	No
10	Red	Sports	Imported	Yes

(08 Marks)

Module-4

- 7 a. Explain K-nearest neighbor algorithm. (05 Marks)
 b. Explain locally weighted Regression. (05 Marks)
 c. Explain case based Reasoning with an example. (06 Marks)

OR

- 8 a. Explain briefly radial basis functions. (04 Marks)
 b. What is Instant based learning? (04 Marks)
 c. Explain FOIL algorithm. (08 Marks)

Module-5

- 9 a. What is reinforcement learning and list the reinforcement problem characteristics. (08 Marks)
 b. Explain FOCL algorithm with an example. (08 Marks)

OR

- 10 a. Write differences between inductive and Analytical learning. (08 Marks)
 b. Explain Q-learning assuming deterministic reward and action with example. (08 Marks)

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